

Thank You!

Thank you for selecting this American Power Conversion SmartSlot Series Expansion Chassis. It has been designed for many years of reliable, maintenance-free service. Please read this manual! It provides installation and operating instructions that will help you get the most from your accessory. Save this manual! It includes important instructions for the safe installation of your accessory. Further, it includes instructions for obtaining factory service.

Radio frequency interference

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the users authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment causes interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- reorient the receiving antenna
- increase the separation between the equipment and the receiver
- connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- consult the dealer or an experienced radio/TV technician for help.

Shielded communications interface cables must be used with this product to ensure compliance with Class B limits.

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

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1. Introduction

The SmartSlot Expansion Chassis allows the use of APC SmartSlot accessories with APC UPSs that are not equipped with a SmartSlot but do have an advanced Computer Interface Port. The Expansion Chassis can also be used with UPSs that have a SmartSlot to provide additional SmartSlot(s).

As shown below, the SmartSlot Expansion Chassis features:

- A SmartSlot
- A cable marked UPS for connecting to the computer interface port of the UPS
- A power connector for an optional power adapter
- A UPS Monitoring port that duplicates the functions of the UPSs computer interface port
- A status indicator.



Figure 1, SmartSlot Expansion Chassis

2. Installation

The SmartSlot Expansion Chassis can be used with any APC device equipped with an advanced type computer interface port. This includes Smart-UPS® and Matrix-UPS products, as well as those accessories that duplicate the functions of the UPSs computer interface port, such as Remote UPS Management Device (Call-UPS II).

Connect the SmartSlot Expansion Chassis as shown below. Two SmartSlot Expansion Chassis may be connected together to provide up to three SmartSlots (including the one in the UPS). Use a second SmartSlot Expansion Chassis by connecting the UPS cable of the second SmartSlot Expansion Chassis to the UPS Monitoring port of the first. Note: Do not connect more than two SmartSlot Expansion Chassis to any UPS.

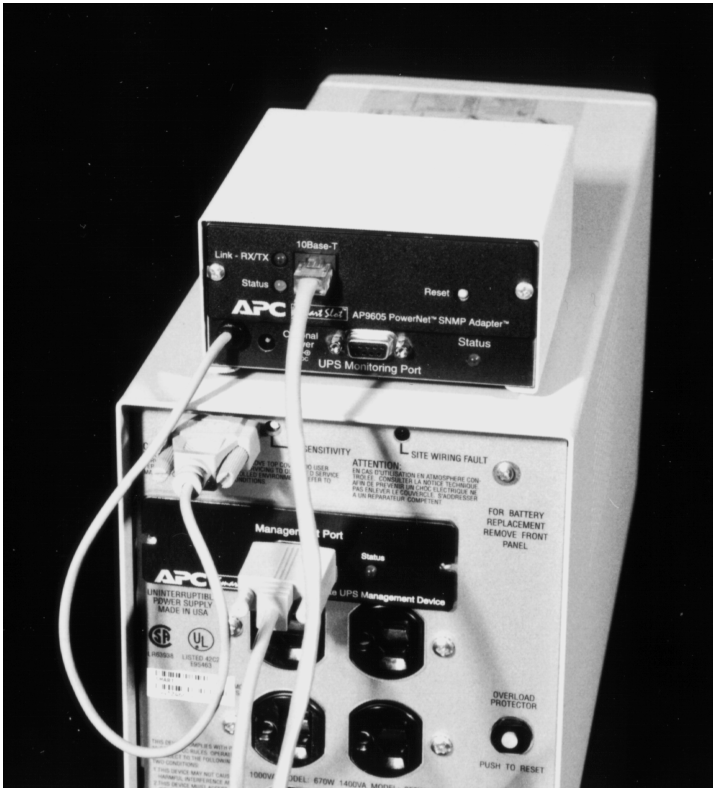


Figure 2, Installed Expansion Chassis

Power Adapter

Next connect the optional power adapter (APC part number AP9505, not supplied, for 100/120 Vac systems only), if required. The power adapter is required under the following conditions:

To use the SmartSlot Expansion Chassis with any Smart-UPS with a serial number prior to S9405, any Smart-UPS with a serial number starting with the letter W, and all Smart-UPS 250s.

With Matrix-UPS products when remote turn-on of the UPS is required.

Contact the APC Customer Service Department at the number on the back cover to obtain a power adapter if needed.

Decide whether to plug the AC adapter into a wall outlet or a protected UPS outlet. If the device powered by the adapter needs to function during a power outage, like for the paging feature of the Remote UPS Management Device (Call-UPS II), then plug the power adapter into one of the AC outlets on the UPS. If remote turn-on operation is required with a Matrix-UPS, plug the power adapter into a wall outlet.

See the operation check (section 4) before installing any UPS accessory in the Expansion Chassis.

3. Status Light

The SmartSlot Expansion Chassis status light indicates the following states:

State	Indication
Bright	Accessory installed and Expansion Chassis has power.
Dim	Accessory not installed and Expansion Chassis has power.
Off	No power to Expansion Chassis.

4. Operation Check

1. After installation of the Expansion Chassis and before installing a UPS accessory, confirm that the indicator light is dimly lit.
2. After installation of a UPS accessory confirm that the indicator light is brightly lit.
3. Confirm the operation of the UPS accessory.

5. Troubleshooting

Problem	Possible Cause	Solution
The SmartSlot Expansion Chassis light is not on.	The particular UPS model does not supply power to the Expansion Chassis or the UPS is damaged.	Use the optional power adapter (see section 2) or repair the UPS.
The SmartSlot Expansion Chassis light is on but the accessory in the Chassis will not work.	The SmartSlot Expansion Chassis is powered by the power adapter, but the UPS cable is not plugged in.	Plug in the UPS cable. See section 2.
An accessory that works when connected to the UPSs computer interface port will not work when connected to the UPS monitoring port connector on the Expansion Chassis.	The SmartSlot Expansion Chassis or the installed accessory has failed	Remove the accessory installed in the SmartSlot Expansion Chassis. If the accessory connected to the Expansion Chassis UPS monitoring port still does not work, return the Expansion Chassis for service. See section 6.
Device running power management software cannot communicate with the UPS.	Any of the above possible causes.	The appropriate solution from above.

6. Service

If the SmartSlot Expansion Chassis requires service:

1. Check the SmartSlot Expansion Chassis using the troubleshooting chart in section 5 before calling for service.
2. Note the model number of the SmartSlot Expansion Chassis, the serial number, and the date purchased. See the back cover of this manual for the correct telephone number and call customer service. A technician will ask you to describe the problem and help solve it over the phone, if possible, or will give you an RMA#. If customer service is not available in your area, call the dealer that sold the SmartSlot Expansion Chassis. If the SmartSlot Expansion Chassis is under warranty, repairs are free. If not, there will be a charge for repair.
3. It is important to pack the SmartSlot Expansion Chassis properly to avoid damage in transit. Damage sustained in transit is not covered under warranty. Include a letter with your name, RMA#, address, copy of the sales receipt, description of the trouble, your daytime phone number, and a check (if necessary).
4. Mark the RMA# on the outside of the package. The factory cannot accept any package without this marking.
5. Return the SmartSlot Expansion Chassis by insured, prepaid carrier to the address given by the technician.

7. Specifications

Electrical

SmartSlot specification compatible

Operating voltage: 18 - 30 Vdc

Operating current draw: 30 mAdc (exclusive of installed accessory)

Physical

Size (H x W x D): 2.75 x 5 x 5.25 inches
(7 x 12.7 x 13.3 cm)

Weight: 1.5 lb. (0.7 kg)

Shipping weight: 2 lb. (0.9 kg)

Environmental

Operating elevation (storage): 0 to 3,000 m (0 to 15,000 m)

Operating temperature (storage): 0 to 40 °C (0 to 45 °C)

Approvals

EMC verification: FCC Class B, DOC class B,
EN55022 Class B

Electromagnetic immunity: EN50082-1 verified

8. Declaration of Conformity

Application of Council Directives: 89/336/EEC

Standards to Which Conformity is Declared: EN55022, EN50082-1

Manufacturers Name: American Power Conversion
132 Fairgrounds Road
West Kingston, RI 02892 USA

Importers Name and Address:

Type of Equipment: SmartSlot Expansion Chassis

Model Number: AP9600

Serial Numbers: A95040000001- A961299999999

Year of Manufacture: 1995, 1996

I, the undersigned, hereby declare that the equipment specified above conforms to the above directive(s).

Place: Billerica, MA USA

Joseph Pomata,
regulatory compliance engineer

Date: 3/31/95

Limited Warranty

American Power Conversion (APC) warrants its products to be free from defects in materials and workmanship for a period of two years from the date of purchase. Its obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. To obtain service under warranty you must obtain a Returned Material Authorization (RMA) number from APC or an APC service center. Products must be returned to APC or an APC service center with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase. This warranty does not apply to equipment which has been damaged by accident, negligence, or misapplication or has been altered or modified in any way. This warranty applies only to the original purchaser who must have properly registered the product within 10 days of purchase.

EXCEPT AS PROVIDED HEREIN, AMERICAN POWER CONVERSION MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Some states do not permit limitation or exclusion of implied warranties; therefore, the afore-said limitation(s) or exclusion(s) may not apply to the purchaser.

EXCEPT AS PROVIDED ABOVE, IN NO EVENT WILL APC BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Specifically, APC is not liable for any costs, such as lost profits or revenue, loss of equipment, loss of use of equipment, loss of software, loss of data, costs of substitutes, claims by third parties, or otherwise.

Life support policy

As a general policy, American Power Conversion (APC) does not recommend the use of any of its products in life support applications where failure or malfunction of the APC product can be reasonably expected to cause failure of the life support device or to significantly affect its safety or effectiveness. APC does not recommend the use of any of its products in direct patient care. APC will not knowingly sell its products for use in such applications unless it receives in writing assurances satisfactory to APC that (a) the risks of injury or damage have been minimized, (b) the customer assumes all such risks, and (c) the liability of American Power Conversion is adequately protected under the circumstances.

Examples of devices considered to be life support devices are neonatal oxygen analyzers, nerve stimulators (whether used for anesthesia, pain relief, or other purposes), autotransfusion devices, blood pumps, defibrillators, arrhythmia detectors and alarms, pacemakers, hemodialysis systems, peritoneal dialysis systems, neonatal ventilator incubators, ventilators for both adults and infants, anesthesia ventilators, and infusion pumps as well as any other devices designated as critical by the U.S. FDA.

Hospital grade wiring devices and leakage current may be ordered as options on many APC UPS systems. APC does not claim that units with this modification are certified or listed as Hospital Grade by APC or any other organization. Therefore these units do not meet the requirements for use in direct patient care.

American Power Conversion Corporation
132 Fairgrounds Road
West Kingston, Rhode Island 02892 USA

Technical Support and Customer Service

United States and Canada	1-800-800-4272 1-401-789-5735
Ireland	1-800-702000
U.K.	0800-132990